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FIGURE 1

035.IN002 F02-FIS __035.IN023 F12-FIS 035.IN013 H09-FIS

> 035.IN013.C11-FIS 035.IN003.E06-FIS 035.IN001.E06-FIS .035.IN013.E03-FIS

035,IN020,D07-FIS 035,IN015,F08-FIS 035,IN003,G09-FIS 035,IN020,B12-FIS 035,IN020,G09-FIS 035,IN010,A09-FIS

prot

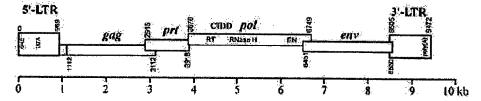
LTR gag

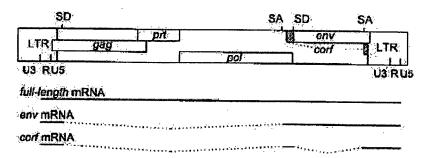
pol

env

LTR

FIGURE 2





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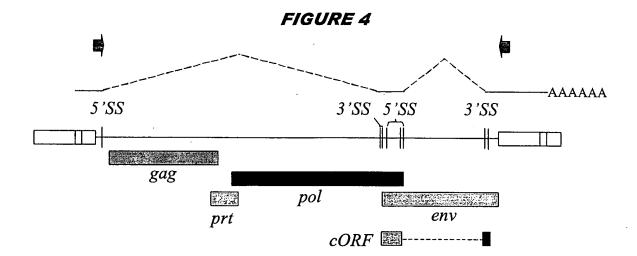
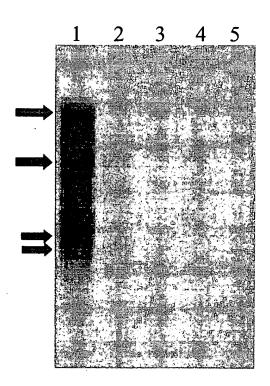
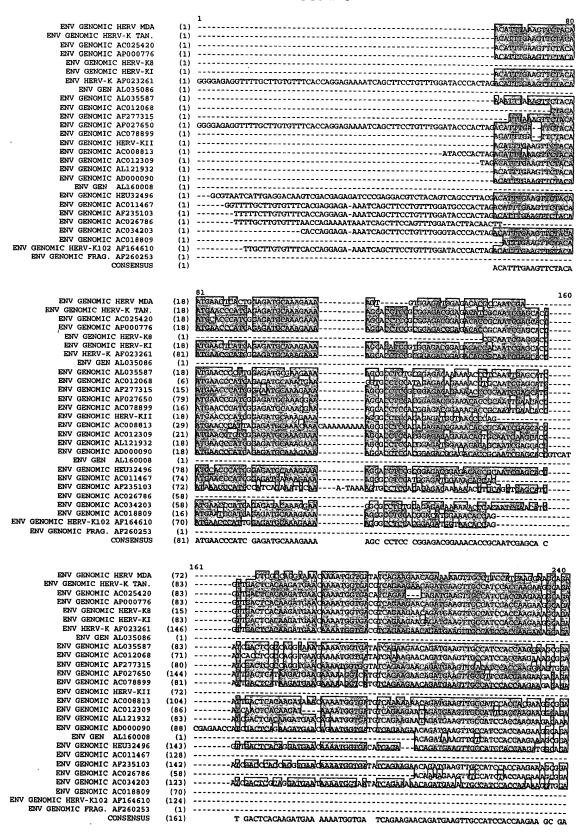
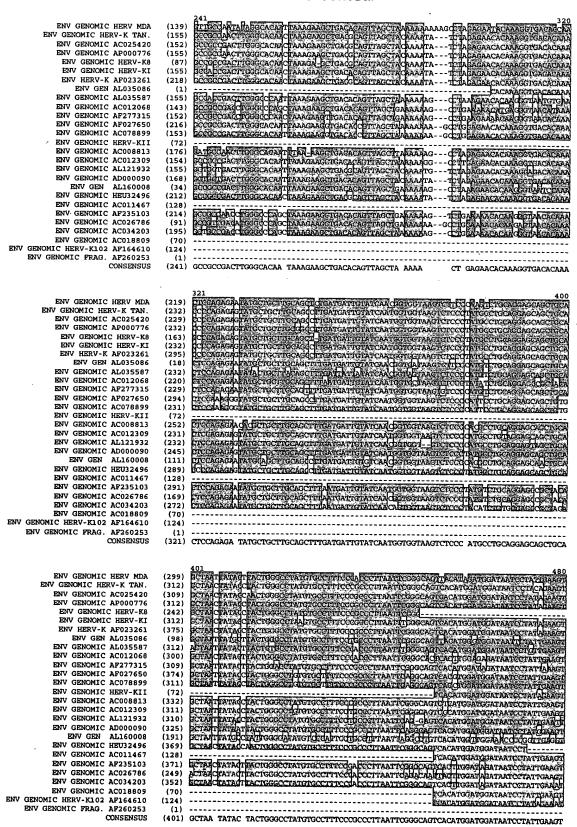
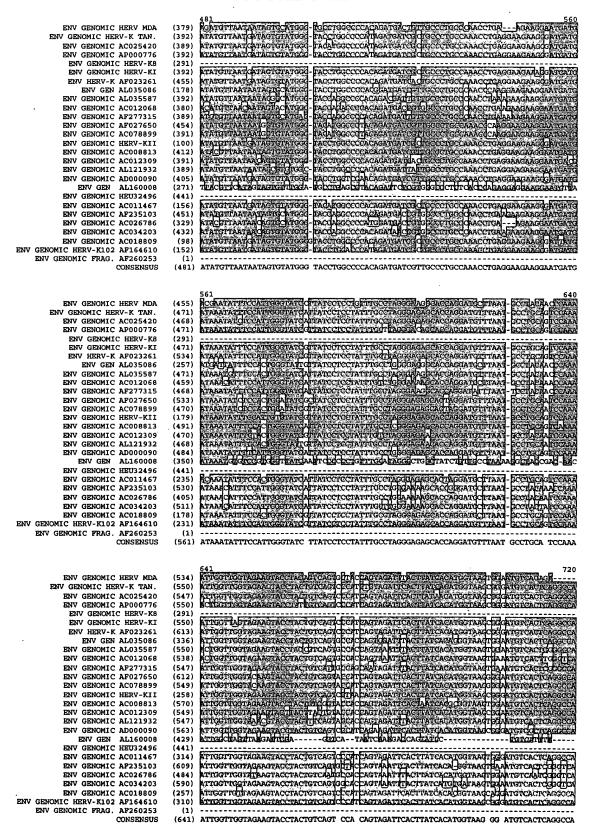


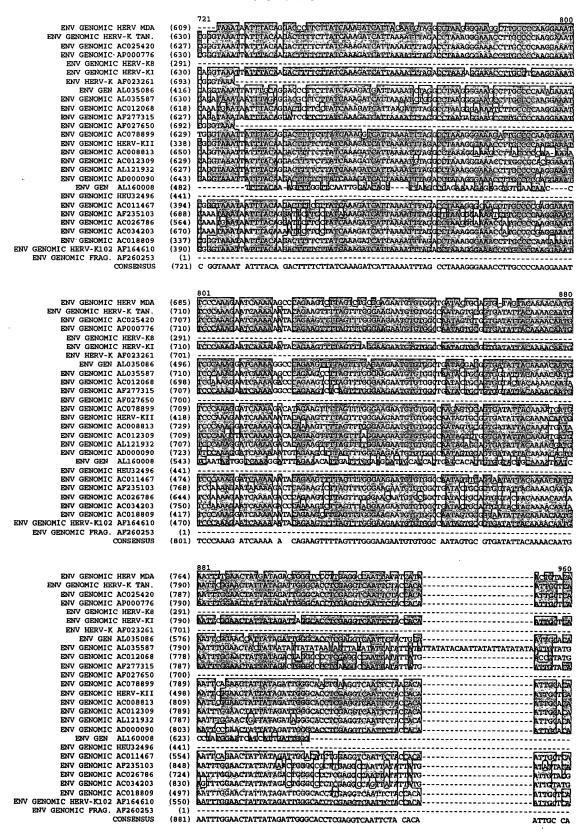
FIGURE 5

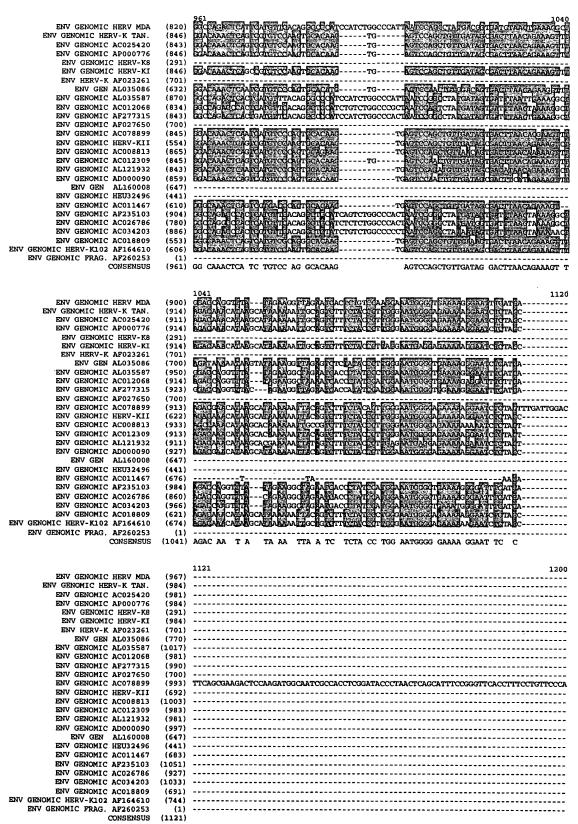




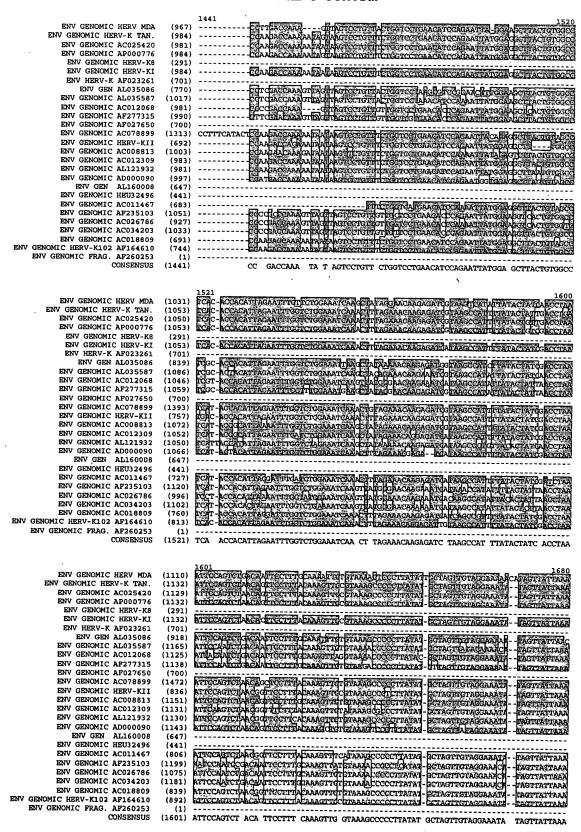


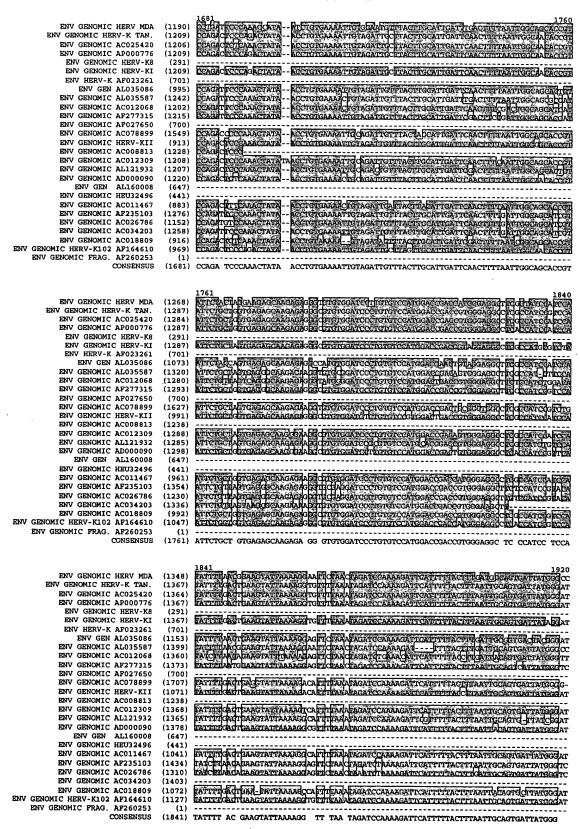


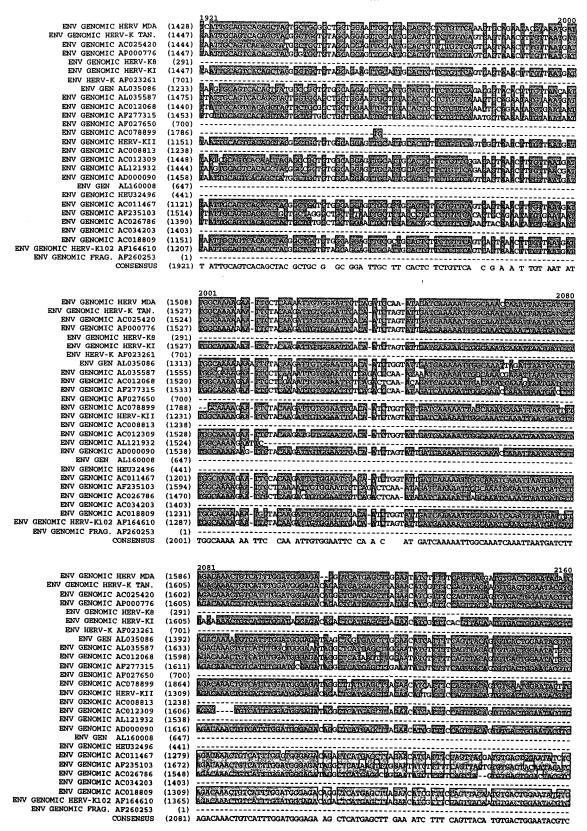


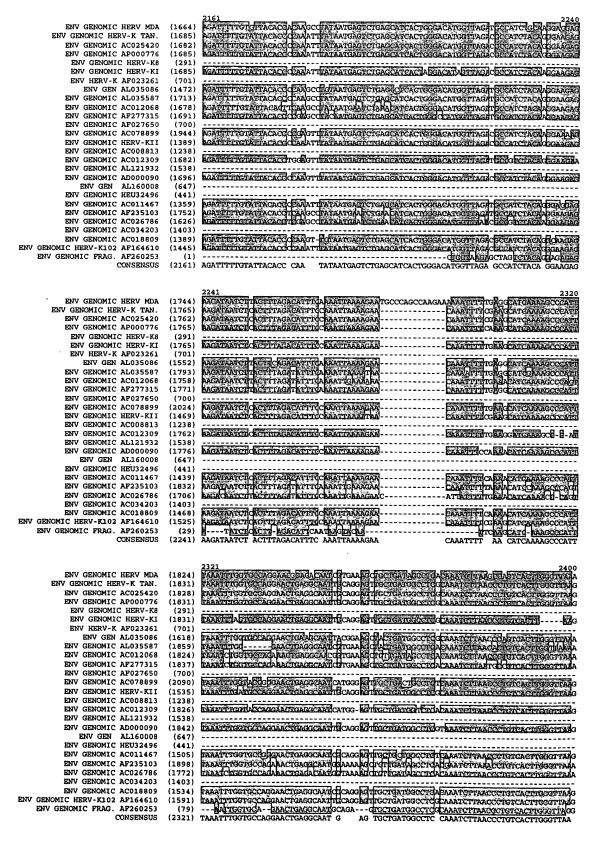


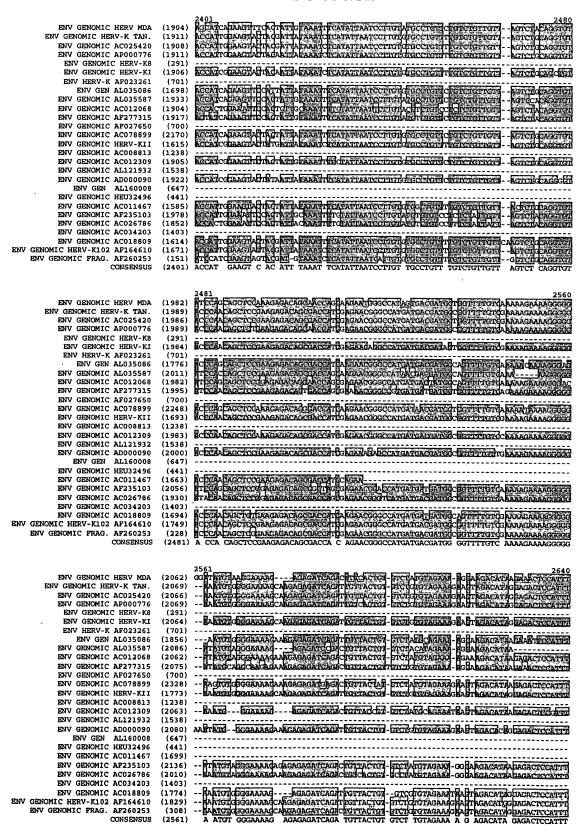
			1201
	ENV GENOMIC HERV MDA	(967)	120
	ENV GENOMIC HERV-K TAN.		
	ENV GENOMIC AC025420	(981)	
	ENV GENOMIC AP000776	(984)	
	ENV GENOMIC HERV-K8	(291)	
	ENV GENOMIC HERV-KI	(984)	
	ENV HERV-K AF023261	(701)	
	ENV GEN AL035086	(770)	
	ENV GENOMIC AL035587	(1017)	
	ENV GENOMIC AC012068	(981)	
	ENV GENOMIC AF277315	(990)	**
	ENV GENOMIC AP027650 ENV GENOMIC AC078899	(700)	CCACCCCGACTAACGCACATGCCCACTAGGGCGTGTCACACTCAGAAGTGTGAAACTCAACCGATCCCGCCCCTACCCCC
	ENV GENOMIC HERV-KII	(692)	CONCOCCONCINACOCONCINOCOCOTOTONICIO CONTROLO CON
	ENV GENOMIC AC008813	,,	***************************************
	ENV GENOMIC AC012309	(983)	
	ENV GENOMIC AL121932		
	ENV GENOMIC AD000090	(997)	
	ENV GEN AL160008	(647)	
	ENV GENOMIC HEU32496	(441)	
	ENV GENOMIC AC011467	(683)	
	ENV GENOMIC AF235103	(1051)	
	ENV GENOMIC AC026786	(927)	
	ENV GENOMIC AC034203	(1033)	
	ENV GENOMIC AC018809		
ENV	GENOMIC HERV-K102 AF164610	(744)	
	ENV GENOMIC FRAG. AF260253 CONSENSUS	(1) (1201)	
	CONSTITUTOS	(1201)	
	•		
			1281
	ENV GENOMIC HERV MDA	(967)	
	ENV GENOMIC HERV-K TAN.	(984)	
	ENV GENOMIC AC025420	(981)	
	ENV GENOMIC AP000776		
	ENV GENOMIC HERV-K8		
	ENV GENOMIC HERV-KI		
	ENV HERV-K AF023261 ENV GEN AL035086	(701)	
	ENV GEN AL035080		
	ENV GENOMIC AC012068		
	ENV GENOMIC AF277315		
	ENV GENOMIC AF027650		
	ENV GENOMIC AC078899	(1153)	ACCACTCCTCACCCAGCATCCATAAAAGCGCGCTGCACCTTTCGCACAGCGTGACTTCCCCTGGCGGACCAGTGAACCTC
	ENV GENOMIC HERV-KII		
	ENV GENOMIC AC008813		
	ENV GENOMIC AC012309		
	ENV GENOMIC AL121932 ENV GENOMIC AD000090	(981)	
	ENV GEN AL160008		
	ENV GENOMIC HEU32496		
	ENV GENOMIC AC011467		
	ENV GENOMIC AF235103		
	ENV GENOMIC AC026786		
	ENV GENOMIC AC034203	(1033)	
	ENV GENOMIC AC018809	(691)	
ENV	GENOMIC HERV-K102 AF164610	(744)	
	ENV GENOMIC FRAG. AF260253	(1)	
	CONSENSUS	(1281)	
			1361
	ENV GENOMIC HERV MDA	(967)	1361 1440
	ENV GENOMIC HERV-K TAN.		***************************************
	ENV GENOMIC AC025420		
	ENV GENOMIC AP000776	(984)	
	ENV GENOMIC HERV-K8	(291)	
	ENV GENOMIC HERV-KI		
	ENV HERV-K AF023261		
	ENV GEN AL035086		***************************************
	ENV GENOMIC AL035587		
	ENV GENOMIC AC012068 ENV GENOMIC AF277315		
	ENV GENOMIC AF277315 ENV GENOMIC AF027650		
	ENV GENOMIC AC078899		ACCGGAGAGCTCAATAAAGAAGATTTTTGCCCTCTTTGTCTTGCCTCTTTGGCCTTATTGATCCACGGTGCCTTTCCATTG
	ENV GENOMIC HERV-KII		ACCOMMONDER THE CONTROL OF THE CARE OF THE
	ENV GENOMIC AC008813		•••••••••••••••••••••••••••••••••••••••
	ENV GENOMIC AC012309		
	ENV GENOMIC AL121932		
	ENV GENOMIC AD000090		
	ENV GEN AL160008	(647)	•••••••••••••••••••••••••••••••••••••••
	ENTL CENOUTO HERESSAGE	(441)	
	ENV GENOMIC HEU32496		
	ENV GENOMIC AC011467	(683)	
	ENV GENOMIC AC011467 ENV GENOMIC AF235103	(683) (1051)	***************************************
	ENV GENOMIC AC011467 ENV GENOMIC AF235103 ENV GENOMIC AC026786	(683) (1051) (927)	
	ENV GENOMIC AC011467 ENV GENOMIC AP235103 ENV GENOMIC AC026786 ENV GENOMIC AC034203	(683) (1051) (927) (1033)	
ENV	ENV GENOMIC AC011467 ENV GENOMIC AF235103 ENV GENOMIC AC026786 ENV GENOMIC AC034203 ENV GENOMIC AC018809	(683) (1051) (927) (1033) (691)	
env	ENV GENOMIC AC011467 ENV GENOMIC AP235103 ENV GENOMIC AC026786 ENV GENOMIC AC034203	(683) (1051) (927) (1033) (691) (744)	











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FIGURE 6 CONTD...

			2641	2707
	ENV GENOMIC HERV MDA	(2136)	TOAT CEGTACTAA	
	ENV GENOMIC HERV-K TAN.	(2146)	POTTA GIACTAA	
	ENV GENOMIC AC025420	(2143)	TOTTA CTACTAA	
	ENV GENOMIC AP000776	(2146)	TOTTA TETACTAA	
	ENV GENOMIC HERV-K8	(291)		
	ENV GENOMIC HERV-KI	(2141)	IGTTAIGTAGTAA	
	ENV HERV-K AF023261	(701)		
	ENV GEN AL035086	(1931)	ISATCISTACTAA	
	ENV GENOMIC AL035587	(2146)		
	ENV GENOMIC AC012068	(2138)	RGAAAAAGACCTGTACTTTGAACAATT	
	ENV GENOMIC AF277315	(2152)	GACCIGIA	
	ENV GENOMIC AF027650	(700)		
	ENV GENOMIC AC078899	(2405)	IGTTOTOTAGTAAGAGAAATTCTTCTGCCTTGAGATGCTGTTAA	
	ENV GENOMIC HERV-KII	(1850)	ROTTORGEACTAA	
	ENV GENOMIC AC008813	(1238)		
	ENV GENOMIC AC012309	(2133)	RETTOESTAG CAAG	
	ENV GENOMIC AL121932	(1538)		
	ENV GENOMIC AD000090	(2157)	ECTTOECTACTAA	
	ENV GEN AL160008	(647)		
	ENV GENOMIC HEU32496	(441)		
	ENV GENOMIC AC011467	(1699)		
	ENV GENOMIC AF235103	(2212)	GAAAAAGACTGTACTTTGAACAATTGCTTTGCTCAGATGTTGTTAATTTGTAGTTTT	
	ENV GENOMIC AC026786	(2086)	REAAAAAGRECTGTACTTTAAACAATTGCTTTGCTGAGATGTTGTTAATTTGTAGCTTTCCCC	AGCC
	ENV GENOMIC AC034203	(1403)		
	ENV GENOMIC AC018809	(1846)	RECTORITATE TAAG	
ENV	GENOMIC HERV-K102 AF164610	(1906)	RETTAIGTGTTAAGAAAATTCTT	
	ENV GENOMIC FRAG. AF260253	(385)	RETTORGERACTAA	
	CONSENSUS	(2641)	TG TGTAC	

GI_4185938_EMB_CAA76878.1_ GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG OF AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG106-135 GAG186-215 PDG-G1 PGD-G2 PGD-G3 CONSENSUS	(1)	1 60MGQTKSKIKSKYASYLSPIKILLKRGGVKVSTKNLIKLFQIIEQFCPWFPEQGTLMGQTKSKIKSKYASYLSPIKILLKRGGVKVSTKNLIKLFQIIEQFCPWFPEQGTLMGQTKSKIKSKYASYLSPIKILLKRGGVKVSTKNLIKLFQIIEQFCPWFPEQGTL
GI 4185938 EMB CAA76878.1	(56)	61 DLKDWKRIGKELKOAGRKGNIIPLTVWNDWAIIKAALEPFOTERDSVSVSDARGSOTTDC
GI_4185942_EMB_CAA76881.1_	(56) (56)	61 120 DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCHIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCHIDC
GI_4185942_EMB_CAA76881.1 GI_4185946_EMB_CAA76884.1	(56) (56)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_	(56) (56) (54)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLEDWKRIGKELKQAGRKGNIIPLTVWNDWPIIKAALEPFQTEDS-VSVSDAPGSCTIDC
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240	(56) (56) (54) (56)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLEDWKRIGKELKQAGRKGNIIPLTVWNDWPIIKAALEPFQTEDS-VSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC
GI_4185942_EMB_CAA76881.1 GI_4185946_EMB_CAA76884.1 GI_5931704_EMB_CAB56602.1 GAG OF AB047240 TRANSLATION OF ORF99	(56) (56) (54) (56) (61)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLEDWKRIGKELKQAGRKGNIIPLTVWNDWPIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEFFQTKEDSVSVSDAPGSCMIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEFFQTKEDSVSVSDAPGSCMIDC
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORP99 TRANSLATION OF G226TOP-LINK	(56) (56) (54) (56) (61) (1)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCHIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCHIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCHIDC DLEDWKRIGKELKQAGRKGNIIPLTVWNDWPIIKAALEPFQTEDS-VSVSDAPGSCHIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCHIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCHIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCHIDC
GI_4185942 EMB_CAA76881.1_ GI_4185946 EMB_CAA76884.1_ GI_5931704 EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK	(56) (56) (54) (56) (61) (1) (1)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCIIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCIIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCIIDC DLEDWKRIGKELKQAGRKGNIIPLTVWNDWPIIKAALEPFQTEDS-VSVSDAPGSCIIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCIIDC
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG	(56) (56) (54) (56) (61) (1) (1) (56)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPPQTEEDSVSVSDAPGSCIIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPPQTEEDSVSVSDAPGSCIIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPPQTEEDSVSVSDAPGSCIIDC DLEDWKRIGKELKQAGRKGNIIPLTVWNDWPIIKAALEPPQTEDS-VSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPPQTKEDSVSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPPQTKEDSVSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPPQTKEDSVSVSDAPGSCIIDC
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135	(56) (56) (54) (56) (61) (1) (1) (56) (1)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCIIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCIIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCIIDC DLEDWKRIGKELKQAGRKGNIIPLTVWNDWPIIKAALEPFQTEDS-VSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCIIDC
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215	(56) (56) (54) (56) (61) (1) (56) (1)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLEDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC
GI_4185942 EMB_CAA76881.1_ GI_4185946 EMB_CAA76884.1_ GI_5931704 EMB_CAB56602.1_ GAG_OF AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG166-215 GAG46-75	(56) (56) (54) (56) (61) (1) (56) (1) (1) (11)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCIIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCIIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCIIDC DLEDWKRIGKELKQAGRKGNIIPLTVWNDWPIIKAALEPFQTEDS-VSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCIIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCIIDC
GI_4185942 EMB_CAA76881.1_ GI_4185946 EMB_CAA76884.1_ GI_5931704 EMB_CAB56602.1_ GAG OF AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG46-75 PDG-G1	(56) (56) (54) (56) (61) (1) (1) (56) (1) (1) (11) (1)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLEDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEDSVSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG166-215 GAG46-75 PDG-G1 PGD-G2	(56) (56) (54) (56) (61) (1) (56) (1) (11) (11) (11) (1)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLEDWKRIGKELKQAGRKGNIIPLTVWNDWPIIKAALEPFQTEDS-VSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC DAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC DAPGSCTIDCDAPGSCTIDC
GI_4185942 EMB_CAA76881.1_ GI_4185946 EMB_CAA76884.1_ GI_5931704 EMB_CAB56602.1_ GAG OF AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG46-75 PDG-G1	(56) (56) (54) (56) (61) (1) (1) (56) (1) (1) (11) (1)	DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLKDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEEDSVSVSDAPGSCTIDC DLEDWKRIGKELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTEDSVSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC DLKDWKRIGEELKQAGRKGNIIPLTVWNDWAIIKAALEPFQTKEDSVSVSDAPGSCTIDC

GT 4105020 TWD G1176070 7	(3.5.6.)	121
GI_4185938_EMB_CAA76878.1_	(116)	NENTR KSQKETEGLHCEYVAEPVMAQSTQNVDYNQLQEVIYPETLKLEGKGPELVGPSH
GI_4185942_EMB_CAA76881.1_ GI 4185946 EMB CAA76884.1	(116)	NENTREKSQKETESLHCEYVAEPVMAQSTQNVDYNQLQEVIYPETLKLEGKGPELVGPSH
GI_5931704_EMB_CAB56602.1	(112)	NENTREKSQKETEGLHCEYVAEPVMAQSTQNVDYNQLQEVIYPETLKLEGKGPELVGPSK
GAG OF AB047240	(115)	NEKTRIKSQKETETLHCEYVAEPLMAQSTQNVDYNQLQEVIYPETLKLEGKGPELVGPLH
TRANSLATION OF ORF99	(121)	NEKTGRKSQKETESLHCEYVTEPVMAQSTQNVDYNQLQGVIYPETLKLEGKGPELVGPSH
TRANSLATION OF GREEN TRANSLATION OF G226TOP-LINK		NEKTG <u>R</u> KSQKETESLHCEYVTEPVMAQSTQNVDYNQLQGVIYPETLKLEGKGPELVGPSF
TRANSLATION OF G591TOP-LINK		
TRANSLATION OF LNCAP-GAG		NEKTGEKSQKETESLHCEYVTEPVMAQSTQNVDYNQLQGVIYPBTLKLEGKGPELVGPSF
GAG106-135		NENTRIKKSQKETEGLHCEYV
GAG100-133		MBMINING VALIBOURCE I V
GAG100-213		
PDG-G1		
PGD-G2	(1)	
PGD-G3	(1)	
CONSENSUS		NE T KKSQKETE LHCEYV
	(,	THE THE PROPERTY
		·
		181 240
GI_4185938_EMB_CAA76878.1_	(176)	SKPRGTSPLPAGQVPVTLQPQKQVKENKTQPPVAYQYWPPAELQYRPPPESQYGYPGMPF
GI 4185942 EMB CAA76881.1	(176)	SKPRGTSRLPAGQVPVTLQPQTQV BENKTQPPVAYQYWPPAELQYRPPVESQYGYPGMPF
GI_4185946_EMB_CAA76884.1	(176)	SKPRGTSPLPAGQVPVTLQPQKQVKENKTQPPVAYQYWPPABLQYRPPPESQYGYPGMPF
GI_5931704_EMB_CAB56602.1	(173)	SKPRGPSPLSAGQVTVTLQPQAQVERKTQLPVAYQYWPPAELQYRPPPBSQYGYLGMPP
GAG OF AB047240	(176)	SKPRGPSPLPAGQVPVTLQPQTQVKENKTQPPVAYQYWPPAELQYLPPPESQYGYPGMPF
TRANSLATION OF ORF99		SKPRGPSPLPAGQVPVTLQPQTQVKENKTQPPVAYQYWPPAELQYLPPPESQYGYPGMPF
TRANSLATION OF G226TOP-LINK	(1)	SOYGYPGMPF
TRANSLATION OF G591TOP-LINK	(1)	
TRANSLATION OF LNCAP-GAG		SKPRGPSPLPAGQVPVTLQPQTQVKENKTQPPVAYQYWPPAELQYLPPPESQYGYPGMPP
GAG106-135		
GAG186-215	(1)	AGQVPVTLQPQKQVKENKTQPPVAYQYWPP
GAG46-75		
PDG-G1		
PGD-G2	(1)	,
PGD-G3	(1)	
CONSENSUS	(181)	AGQV VTLQPQ QVKENKTQ PVAYQYWPP SQYGY GMPP
		241 300
GI_4185938_EMB_CAA76878.1_		APQGRAPYPQPPTRRLNPTAPPSRQGSKLHEIIDKSRKEGDTEAWQFPVTLBPMPPGEGA
GI_4185942_EMB_CAA76881.1_		APQGRAPYPQPPTRRLNPTAPPSRRGSELHEIIDKSRKEGDTEAWQFPVMLEPMPPGEGA
GI_4185946_EMB_CAA76884.1_		APQGRAPYPQPPTRRLNPTAPPSRQGSKLHEIIDKSRKEGDTEAWQFPVTLEPMPPGEGA
GI_5931704_EMB_CAB56602.1_		APQDREPYPQPPTRRQCYGTT
GAG OF AB047240		ALQGRAPYPQPPTVRLNPTASRSGQGGTLHAVIDEARKQGDLEAWRFLVILQLVQAGEET
TRANSLATION OF ORF99	(241)	ALQGRAPYPQPPTVRLNPTASRSGQGGTLHAVIDEARKQGDLEAWRFLVILQLVQAGEET
TRANSLATION OF G226TOP-LINK		APQGRAPYPQPPTRRLNPTA
TRANSLATION OF G591TOP-LINK		
TRANSLATION OF LNCAP-GAG	(236)	${\tt ALQGRAPYPQPPTVRLNPTASRSGQGGTLHAVIDEARKQGDLEAWRFLVILQLVQAGEET}$
GAG106-135		
GAG186-215	(31)	
GAG46-75	(31)	
PDG-G1	(17)	
PGD-G2	(1)	SKLHEIIDKSRKEGDT
PGD-G3		
CONSENSUS		
	(241)	A Q R PYPQPPT R
	(241)	A Q R PYPQPPT R
	(241)	200
GT 4105020 TWD G22G6070 4		301 360
GI_4185938_EMB_CAA76878.1_	(296)	301 360 QEGEPPTVEARYKSFSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK
GI_4185942_EMB_CAA76881.1_	(296) (296)	301 QEGEPPTVEARYKSFSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSFSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_	(296) (296) (296)	301 QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_	(296) (296) (296) (254)	301 QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240	(296) (296) (296) (254) (296)	360 QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QVGAPARAETRCBPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK
GI 4185942 EMB CAA76881.1 GI 4185946 EMB CAA76884.1 GI 5931704 EMB CAB56602.1 GAG OF AB047240 TRANSLATION OF ORF99	(296) (296) (296) (254) (296) (301)	360 QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QVGAPARAETRCBPPTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCBPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK
GI 4185942 EMB CAA76881.1 GI 4185946 EMB CAA76884.1 GI 5931704 EMB CAB56602.1 GAG OF AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK	(296) (296) (296) (254) (296) (301) (31)	360 QEGEPPTVEARYKSFSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSFSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSFSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK	(296) (296) (296) (254) (296) (301) (31) (1)	361 QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG	(296) (296) (296) (254) (296) (301) (31) (1) (296)	301 360 QEGEPPTVEARYKSFSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSFSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSFSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSFYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135	(296) (296) (296) (254) (296) (301) (31) (1) (296) (31)	301 QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QVGAPARAETRCEPPTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPPTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPPTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215	(296) (296) (296) (254) (296) (301) (1) (296) (31) (31)	360 QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QVGAPARAETRCEPPTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPPTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPPTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG46-75	(296) (296) (296) (254) (296) (301) (31) (296) (31) (31) (31)	360 QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPPTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPPTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG166-215 GAG46-75 PDG-G1	(296) (296) (296) (254) (296) (301) (31) (296) (31) (31) (31) (31)	361 QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSPSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QVGAPARAETRCBPPTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPPTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPPTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG46-75 PDG-G1 PGD-G2	(296) (296) (296) (254) (296) (301) (31) (296) (31) (31) (31) (31) (31) (37)	301 360 QEGEPPTVEARYKSFSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSFSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSFSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG166-215 GAG46-75 PDG-G1	(296) (296) (296) (254) (296) (301) (31) (296) (31) (31) (31) (31)	301 360 QEGEPPTVEARYKSFSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSFSIKMLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QEGEPPTVEARYKSFSIKKLKDMKEGVKQYGPNSPYMRTLLDSIAHGHRLIPYDWEILAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK QVGAPARAETRCEPFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGNRLTPYDWESLAK

GI_4185938_EMB_CAA76878.1_ GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG OF AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK	(356) (356) (356) (254) (356) (361) (31) (1)	361 SSLSPSQFLQFKTWWIDGVQEQVRRNRAANPPVNIDADQLLGIGQNWSTISQQALMQNEA SSLSPSQFLQFKTWWIDGVQEQVRRNRAANPPVNIDADQLLGIGQNWSTISQQALMQNEA SSLSPSQFLQFKTWWIDGVQEQVRRNRAANPPVNIDADQLLGIGQNWSTISQQALMQNEA SSLSSSQYLQFKTWWIDGVQEQVRKNQATKPTVNIDADQLLGTGPNWSTINQQSVMQNEA SSLSSSQYLQFKTWWIDGVQEQVRKNQATKPTVNIDADQLLGTGPNWSTINQQSVMQNEA
TRANSLATION OF LNCAP-GAG	(356)	SSLSSSQYLQFKTWWIDGVQEQVRKNQATKPTVNIDADQLLGTGPNWSTINQQSVMQNEA
GAG106-135 GAG186-215	(31) (31)	
GAG46-75	(31)	
PDG-G1 PGD-G2	(17) (17)	
PGD-G3	(1)	
CONSENSUS	(361)	
GI_4185938_EMB_CAA76878.1 GI_4185942_EMB_CAA76881.1 GI_4185946_EMB_CAA76884.1	(416) (416)	
GI_5931704_EMB_CAB56602.1_ GAG OF AB047240	(254)	IEQVRAICLRAWGKIQDPGTAFP-INSIRQGSKEPYPDFVARLQDAAQKSITDDNARKVI
TRANSLATION OF ORF99	(421)	IEQVRAICLRAWGKIQDPGTAF-PINSIRQGSKEPYPDFVARLQDAAQKSITDDNARKVI
TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK	(31) (1)	
TRANSLATION OF LINCAP-GAG	(416)	
GAG106-135	(31)	
GAG186-215 GAG46-75	(31) (31)	
PDG-G1	(17)	
PGD-G2 PGD-G3	(17) (1)	
CONSENSUS	(421)	
		481 540
GI_4185938_EMB_CAA76878.1_ GI 4185942 EMB CAA76881.1		VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL
GI_4185938_EMB_CAA76878.1_ GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_	(476)	
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_	(476) (476) (254)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_	(476) (476) (254) (475)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAB76884.1_ GI_5931704_EMB_CAB56602.1_ GAG OF AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK	(476) (476) (254) (475) (480) (31)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK	(476) (476) (254) (475) (480) (31) (1)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAB76884.1_ GI_5931704_EMB_CAB56602.1_ GAG OF AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK	(476) (476) (254) (475) (480) (31)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION_OF_ORP99 TRANSLATION_OF_G226TOP-LINK TRANSLATION_OF_G591TOP-LINK TRANSLATION_OF_LNCAP-GAG GAG106-135 GAG186-215	(476) (476) (254) (475) (480) (31) (1) (475) (31) (31)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG46-75	(476) (476) (254) (475) (480) (31) (1) (475) (31) (31) (31)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION_OF_ORP99 TRANSLATION_OF_G226TOP-LINK TRANSLATION_OF_G591TOP-LINK TRANSLATION_OF_LNCAP-GAG GAG106-135 GAG186-215	(476) (476) (254) (475) (480) (31) (1) (475) (31) (31)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_	(476) (476) (254) (475) (480) (31) (475) (31) (31) (31) (17) (17)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG46-75 PDG-G1 PGD-G2 PGD-G3	(476) (476) (254) (475) (480) (31) (475) (31) (31) (31) (17) (17)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG46-75 PDG-G1 PGD-G2 PGD-G3	(476) (476) (254) (475) (480) (31) (11) (475) (31) (31) (17) (17) (11) (481)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG46-75 PDG-G1 PGD-G2 PGD-G3 CONSENSUS GI_4185938_EMB_CAA76878.1_	(476) (476) (254) (475) (480) (31) (475) (31) (31) (31) (17) (17) (17) (481)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL 600 GGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_	(476) (476) (254) (475) (480) (31) (475) (31) (31) (31) (17) (17) (481) (536) (536)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL GGQVTTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGGKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_	(476) (476) (476) (476) (480) (480) (475) (31) (31) (17) (17) (17) (481) (536) (536) (536) (536) (254)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL GOUNTEGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF GREEP TRANSLATION OF GS91TOP-LINK TRANSLATION OF GS91TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG46-75 PDG-G1 PGD-G2 PGD-G3 CONSENSUS GI_4185938_EMB_CAA76878.1_ GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240	(476) (476) (476) (475) (480) (31) (11) (475) (31) (31) (17) (17) (18) (481) (536) (536) (536) (536) (536) (536) (535)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL GGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQGGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQGGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQGGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQGGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQGGQVRTFGKKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWANQ
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_	(476) (476) (476) (475) (480) (31) (475) (31) (31) (17) (17) (481) (536) (536) (536) (536) (536) (535) (540) (31)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL GGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGGKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G591TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG46-75 PDG-G1 PGD-G2 PGD-G3 CONSENSUS GI_4185938_EMB_CAA76878.1_ GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK	(476) (476) (254) (476) (480) (31) (475) (31) (31) (17) (17) (481) (536)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL GGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQWASQ
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAB56602.1_ GAG OF AB047240 TRANSLATION OF ORF99 TRANSLATION OF G591TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG46-75 PDG-G1 PGD-G2 PGD-G3 CONSENSUS GI_4185938_EMB_CAA76878.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG OF AB047240 TRANSLATION OF G226TOP-LINK TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG	(476) (476) (476) (476) (480) (480) (475) (31) (31) (17) (17) (481) (536	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL GGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGGKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ WASQ
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF ORF99 TRANSLATION OF G591TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG46-75 PDG-G1 PGD-G2 PGD-G3 CONSENSUS GI_4185938_EMB_CAA76878.1_ GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAA76884.1_ GI_5931704_EMB_CAB56602.1_ GAG_OF_AB047240 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK	(476) (476) (476) (476) (480) (475) (475) (31) (31) (31) (17) (17) (481) (536) (536) (536) (536) (540) (31) (1) (535) (31) (31)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENPNPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL GGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGGKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ WASQ
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAB56602.1_ GAG OF AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG46-75 PDG-G1 PGD-G2 PGD-G3 CONSENSUS GI_4185938_EMB_CAA76878.1_ GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAB56602.1_ GAG OF AB047240 TRANSLATION OF G226TOP-LINK TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG186-75	(476) (476) (476) (476) (480) (475) (481) (31) (31) (31) (17) (17) (481) (536)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL GGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ WASQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAB56602.1_	(476) (476) (476) (476) (480) (475) (481) (31) (31) (31) (477) (481) (536) (53	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL GGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGGKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ WASQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ
GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAB56602.1_ GAG OF AB047240 TRANSLATION OF ORF99 TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG46-75 PDG-G1 PGD-G2 PGD-G3 CONSENSUS GI_4185938_EMB_CAA76878.1_ GI_4185942_EMB_CAA76881.1_ GI_4185946_EMB_CAB56602.1_ GAG OF AB047240 TRANSLATION OF G226TOP-LINK TRANSLATION OF G226TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF G591TOP-LINK TRANSLATION OF LNCAP-GAG GAG106-135 GAG186-215 GAG186-75	(476) (476) (476) (476) (480) (475) (481) (31) (31) (31) (477) (481) (536) (53	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGMGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMHKAMLMAQAITGVVL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL GGQVRTFGRKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWASQ GGQVRTFGKKCYNCGQIGHLKKNCPVLNKQNITIQATTTG-REPPDLCPRCKKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ WASQ GGQVRTFGKKCYNCGQIGHLKRSCPVLNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ

		660
GI_4185938_EMB_CAA76878.1_	(595)	CRSKFDKNGQPLSGNEQRGQPQAPQQTGAFPIQPFVPQGFQGQQP-PLSQVFQGISQLPQ
GI_4185942_EMB_CAA76881.1_	(595)	CRSKFDKNGQPLSGNEQRGQPQAPQQTGAFPIQPFVPHGFQGQQP-PLSQVFQGISQLPQ
GI_4185946_EMB_CAA76884.1_	(595)	CRSKFDKNGQPLSGNEQRGQPQAPQQTGAFPIQPFVPQGFQGQQP-PLSQVFQGISQLPQ
GI_5931704_EMB_CAB56602.1_	(254)	
GAG OF AB047240	(595)	CHSKFDKDGQPLSGNRKRGQPQAPQQTGAFPVQLFVPQGFQGQQPLQKIPPLQGVSQLQQ
TRANSLATION OF ORF99	(600)	CHSKFDKDGQPLSGNRKRGQPQAPQQTGAFPVQLFVPQGFQGQQPLQKIPPLQGVSQLQQ
TRANSLATION OF G226TOP-LINK	(31)	
TRANSLATION OF G591TOP-LINK	(5)	CRSKFDKNGQPLSGNEQRGQPQAPQQ
TRANSLATION OF LNCAP-GAG	(595)	CHSKFDKDGQPLSGNRKRGQPQAPQQTGAFPVQLFVPQGFQGQQPLQKIPPLQGVSQLQQ
GAG106-135	(31)	
GAG186-215	(31)	
GAG46-75	(31)	
PDG-G1	(17)	
PGD-G2	(17)	
PGD-G3	(1)	CRSKFDKNGQPLSGNE
CONSENSUS	(601)	C SKFDK GOPLSGN
•		
		661 673
GI 4185938 EMB CAA76878.1	(654)	YNNCPPPQAAVQQ
GI 4185942 EMB CAA76881.1	(654)	YNNCPPPQAAVQQ
GI 4185946 EMB CAA76884.1	(654)	YNNCPPPQAAVQQ
GI 5931704 EMB CAB56602.1	(254)	
GAG OF AB047240		SNSCPAPQQAAPQ
TRANSLATION OF ORF99	(660)	SNSCPAPQQAAPQ
TRANSLATION OF G226TOP-LINK	(31)	
TRANSLATION OF G591TOP-LINK	(31)	
TRANSLATION OF LNCAP-GAG	(655)	SNSCPAPQQAAPQ
GAG106-135	(31)	
GAG186-215	(31)	************
GAG46-75	(31)	
PDG-G1	(17)	
PGD-G2	(17)	
PGD-G3	(17)	
CONSENSUS	(661)	

		1 60
GI_4185939_EMB_CAA76879.1_	(1)	MLTDLRAVNAVIQPMGPLQPGLPSPAMIPKDWPLIIIDLKDCFFTIPLAEQDCEKFA
GI_4185943_EMB_CAA76882.1_	(1)	MLTDLRAVNAVNAVIQPMGPLQPGLPSLAMIPKDWPLIIIDLKDCFFTIPLAEQDCEKFA
GI_4185947_EMB_CAA76885.1_	(1)	MLTDLRAVNAVIQPMGPLQPGLPSPAMIPKDWPLIIIDLKDCFFTIPLAEQDCRKFA
GI_5931705_EMB_CAB56603.1_	(1)	MIPKDWPLIIIDLKDCFFTIPLAEQDCEKFA
ENV OF AB047240	(1)	
TRANSLATION OF P386TOP-LINK	(1)	
TRANSLATION OF POL349-LINK	(1)	
LNCAP-GENOMBA-POLORF	(1)	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(1)	
TRANSLATION OF ORF111-10	(1)	***************************************
PGD-P1	(1)	
PGD-P2	(1)	
PGDP3	(1)	
CONSENSUS	(1)	
CONSENSOS	(1)	
		61
GT 4185939 EMB CAA76879 1	(58)	61 120 FTIPAINNKEPATREOWKULDOGMINSPTICOTRUGRALOPURKESDOGI I HOLDDILO
GI_4185939_EMB_CAA76879.1_ GI_4185943_EMB_CAA76882_1	(58) (61)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC
GI_4185943_EMB_CAA76882.1_	(61)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC
GI_4185943_EMB_CAA76882.1 GI_4185947_EMB_CAA76885.1	(61) (58)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC
GI_4185943_EMB_CAA76882.1 GI_4185947_EMB_CAA76885.1 GI_5931705_EMB_CAB56603.1	(61) (58) (32)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC
GI_4185943_EMB_CAA76882.1 GI_4185947_EMB_CAA76885.1 GI_5931705_EMB_CAB56603.1 ENV OF AB047240	(61) (58) (32) (1)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTLCQTFVGRALQPVRDKFSDCYIIHYFDDILC
GI_4185943_EMB_CAA76882.1 GI_4185947_EMB_CAA76885.1 GI_5931705_EMB_CAB56603.1 ENV OF AB047240 TRANSLATION OF P386TOP-LINK	(61) (58) (32) (1) (1)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTLCQTFVGRALQPVRDKFSDCYIIHYFDDILC
GI_4185943_EMB_CAA76882.1 GI_4185947_EMB_CAA76885.1 GI_5931705_EMB_CAB56603.1 ENV OF AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF POL349-LINK	(61) (58) (32) (1) (1) (1)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTLCQTFVGRALQPVRDKFSDCYIIHYFDDILC
GI_4185943_EMB_CAA76882.1 GI_4185947_EMB_CAA76885.1 GI_5931705_EMB_CAB56603.1 ENV OF AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF POL349-LINK LNCAP-GENOMEA-POLORF	(61) (58) (32) (1) (1) (1) (1)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTLCQTFVGRALQPVRDKFSDCYIIHYFDDILC
GI_4185943_EMB_CAA76882.1 GI_4185947_EMB_CAA76885.1 GI_5931705_EMB_CAB56603.1 ENV OF AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF POL349-LINK LUCAP-GENOMEA-POLORF TRANSLATION OF LNCAP-POL-GENA-GOODA	(61) (58) (32) (1) (1) (1) (1)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTLCQTFVGRALQPVRDKFSDCYIIHYFDDILC
GI_4185943_EMB_CAA76882.1 GI_4185947_EMB_CAA76885.1 GI_5931705_EMB_CAB56603.1 ENV OF AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF P01349-LINK LNCAP-GENOMEA-POLORF TRANSLATION OF LNCAP-POL-GENA-GOODA TRANSLATION OF ORF111-10	(61) (58) (32) (1) (1) (1) (1) (1)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTLCQTFVGRALQPVRDKFSDCYIIHYFDDILC
GI_4185943_EMB_CAA76882.1_ GI_4185947_EMB_CAA76885.1_ GI_5931705_EMB_CAB56603.1_ ENV OF AB047240 TRANSLATION OF P386TOF-LINK TRANSLATION OF POL349-LINK LNCAP-GENOMEA-POLORF TRANSLATION OF LNCAP-POL-GENA-GOODA TRANSLATION OF ORF111-10 PGD-P1	(61) (58) (32) (1) (1) (1) (1) (1) (1)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTLCQTFVGRALQPVRDKFSDCYIIHYFDDILC
GI_4185943_EMB_CAA76882.1 GI_4185947_EMB_CAA76885.1 GI_5931705_EMB_CAB56603.1 ENV OF AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF P01349-LINK LNCAP-GENOMEA-POLORF TRANSLATION OF LNCAP-POL-GENA-GOODA TRANSLATION OF ORF111-10	(61) (58) (32) (1) (1) (1) (1) (1) (1) (1)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTLCQTFVGRALQPVRDKFSDCYIIHYFDDILC
GI_4185943_EMB_CAA76882.1_ GI_4185947_EMB_CAA76885.1_ GI_5931705_EMB_CAB56603.1_ ENV OF AB047240 TRANSLATION OF P386TOF-LINK TRANSLATION OF POL349-LINK LNCAP-GENOMEA-POLORF TRANSLATION OF LNCAP-POL-GENA-GOODA TRANSLATION OF ORF111-10 PGD-P1	(61) (58) (32) (1) (1) (1) (1) (1) (1)	FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC FTIPAINNKEPATRFQWKVLPQGMLNSPTLCQTFVGRALQPVRDKFSDCYIIHYFDDILC

GI_4185939_EMB_CAA76879.1_	(118)	180 AAETKOKLIDCYTFLQAEVANAGLAIASDKIQTSTPFHYLGMQIENRKIKPQKIEIRKDT
GI_4185943_EMB_CAA76882.1_	(121)	AAEMKDKLIDCYTFLQAEVANAGLAIASDKIQTSTPFHYLEMQIENRKIKPPKIEIRKD
GI_4185947_EMB_CAA76885.1_ GI 5931705_EMB_CAB56603.1	(118)	AAETKDKLIDCYTFLQAEVANAGLAIASDKIQTSTPFHYLGMQIENRKIKPQKIBIRKD
ENV OF AB047240	(1)	AABTKDKLIDCYTFLQAEVANAGLAIASDKIQTSTPFHYLGMQIENRKIKPQKIEIRKD
TRANSLATION OF P386TOP-LINK	(1)	
TRANSLATION OF POL349-LINK	(1)	
LNCAP-GENOMEA-POLORF	(1)	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(1)	
TRANSLATION OF ORF111-10 PGD-P1	(1)	
PGD-P2	(1) (1)	- SMALL QUIDING
PGDP3	(1)	
CONSENSUS	(121)	
		,
CT 4105020 PWD Charcogo 1	(100)	181 240
GI_4185939_EMB_CAA76879.1_ GI_4185943_EMB_CAA76882.1	(181)	LKTLNDFQKLLGDINWIRPTLGIPTYAMSNLFSILRGDSDLNSKRMLTPEATKEIKLVEE LKTLNDFQKLLGDINWIRPTLGIPTYAMSNLFSILRGDSDLNSKRMLTPEATKEIKLVEE
GI_4185947_EMB_CAA76885.1_	(178)	LKTLNDFQKLLGDINWIRPTLGIPTYAMSNLFSILRGDSDLNSKRMLTPEATKEIKLVEE
GI_5931705_EMB_CAB56603.1_	(152)	LKTLNDFQKLLGDINWIRPTLGIPTYAMSNLFSILRGDSDLNSKRMLTPEATKEIKLVE
ENV OF AB047240	(1)	
TRANSLATION OF P386TOP-LINK TRANSLATION OF POL349-LINK	(1)	
LNCAP-GENOMEA-POLORF	(1) (1)	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(1)	
TRANSLATION OF ORF111-10	(1)	
PGD-P1	(17)	
PGD-P2	(1)	
PGDP3 CONSENSUS	(1)	
CONSENSUS	(181)	
**		241 300
GI_4185939_EMB_CAA76879.1_	(238)	KIQSAQINRIDPLAPLOILIFATAHSPTGIIIONTDLVEWSFLPHSTEKTFTLYLDOIAT
GI_4185943_EMB_CAA76882.1_ GI_4185947_EMB_CAA76885.1	(241)	Kiqsaqinridplaplojlifftahsptgiiiontdlybwsflehstiktfflyldomat Kiqsaqinridplaplojlifftahsptgiiiontdlybwsflehstiktfflyldomat
GI_5931705_EMB_CAB56603.1_	(212)	KIQSAQINKIDPLAPLOQLIFFITAHSPIGIIQONTDLVEWSFLPHSTWKTFTLYLDQAT
ENV OF AB047240	(1)	TAYATT
TRANSLATION OF P386TOP-LINK	(1)	Mari
TRANSLATION OF POL349-LINK	(1)	数 数 数 数 数 2
LNCAP-GENOMEA-POLORF TRANSLATION OF LNCAP-POL-GENA-GOODA	(1)	DHLAPLOILIF TAHSLTRIIVONTOLVEWSFLPHSTEKTFTLYLDONAT
TRANSLATION OF ORF111-10	(1) (1)	DHLAPLOILIFUTAHSLIN INONTOLVINGELPHSTIKTFILVLDOMAT YKKAGSDHLAPLOILIFUTAHSLIN ILQNIDLVINGELPHSTIKTFILVLDOMAT
PGD-P1	(17)	
PGD-P2	(1)	***************************************
PGDP3	(1)	
Consensus	(241)	D LAPLQLLIFATAHS TGIIIQNTDLVEWSFLPHSTVKTFTLYLDQMAT
		301 _ 360
GI_4185939_EMB_CAA76879.1_	(298)	LIGQTRLRIIKLCGNDPDKIVVPLTKEQVRQAFINSGAWKIGLANFEGIIDNHYPKTKIF
GI_4185943_EMB_CAA76882.1_	(301)	LIGQTRLRIIKLCGNDPDKIVVPLTKEOVROAFINSGAWOIGLANFEGITDNHYPKTKIF
GI_4185947_EMB_CAA76885.1_ GI_5931705_EMB_CAB56603.1	(298)	LIGQTRLRIIKLCGNDPDKIVVPLTKEOVROAFINSGAWKIGLANFYGIIDNHYPKTKIF
ENV OF AB047240	(2/2)	LIGPTRLRIIKLCGNDPDKIVVPLTKEOVROAFINSGAWQIGLANFWGIIDNHYPKTKIF LIGQGRLRIITLCGNDPDKITVPFNKQQVRQAPISSGAWQIGLANFWGIIDNHYPKTKIF
TRANSLATION OF P386TOP-LINK	(1)	DIGGGALATITIA.GADEDATIVEFRAQQVKQAFISSGAWQIGLANEWGIIDNHYPKTKIF
TRANSLATION OF POL349-LINK	(1)	NHYPKTKIF
LNCAP-GENOMEA-POLORF	(51)	LIGOGRLRIITLCGNDPDKITVPFNKQOVROAFISSGAWQIGLANFIGIIDNHYPKTKIF
TRANSLATION OF LNCAP-POL-GENA-GOODA	(51)	LIGOGRLRIITLCGNDPDKITVPFNKQOVRQAFISSGAWQIGLANFIGIIDNHYPKTKIF
TRANSLATION OF ORF111-10	(57)	LIGOGRLRIITLCGNDPDKITVPFNKQQVRQAFISSGAWQIGLANF
PGD-P1	(17)	***************************************
PGD-P2 PGDP3	(1)	
CONSENSUS	(301)	LIGQ RLRII LCGNDPDKI VP K QVRQAFI SGAW IGLANFLGIIDNHYPKTKIF
		Wangel both logical both topic bollownia kiris
GI_4185939_EMB_CAA76879.1	(3E0)	361 420
GI_4185943_EMB_CAA76882.1_	(361)	QFLKLTTWILPKITRREPLENALTVFTDGSSNGKAAYTGPKERVIKTPYQSAQRAELVAV QFLKLTTWILPKITRREPLENALTVFTDGSSNGKAAYTGPKERVIKTQYQSAQRAELVAV
GI_4185947_EMB_CAA76885.1	(358)	OPLKLTTWILPKITRREPLENALTVFTDGSSNGKAAYTGPKERVIKTQYQSAQRAELVAV
GI_5931705_EMB_CAB56603.1_	(332)	OFLKLTTWILPKITRREPLENALTVFTDGSSNGKVAYTGPKERVIKTPYOSAOPAETWAV
ENV OF AB047240	(64)	QFLKLTTWILPKITRREPLENALTVFTDGSSNGKAAYTGPKRRVTKTPYOGAOPARIJJAV
TRANSLATION OF P386TOP-LINK	(1)	GSSNGKAAYTGPKERVIKTPYQSAQRAELV
TRANSLATION OF POL349-LINK	(10)	QFLKLTTWILPKITRREP
LNCAP-GENOMEA-POLORF TRANSLATION OF LNCAP-POL-GENA-GOODA	(111)	QFLKLTTWILPKITRREPLENALTVFTDGSSNGKAAYTGPKERVIKTPYQSAQRAELVAV
TRANSLATION OF ENCAP-POL-GENA-GOODA TRANSLATION OF ORF111-10	(111)	OFLKLTTWILPKITRREPLENALTVFTDGSSNGKAAYTGPKERVIKTPYOSAORAELVAV
PGD-P1	(17)	QFLKLTTWILPKITRREPLENALTVFTDGSSNGKAAYTGPKERVIKTPYQSAQRAELVAV
PGD-P2	(1)	KAAYTGPKERVIKTPC
PGDP3	(1)	
CONSENSUS	(361)	QFLKLTTWILPKITREPLENALTVFTDGSSNGKAAYTGPKERVIKTPYQSAQRAELVAV

GI_4185939_EMB_CAA76879.1_ GI_4185943_EMB_CAA76882.1_ GI_4185947_EMB_CAA76885.1_ GI_5931705_EMB_CAB56603.1_ ENV OF AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF POL349-LINK LNCAP-GENOMEA-POLORF TRANSLATION OF LNCAP-POL-GENA-GOODA TRANSLATION OF ORF111-10 PGD-P1 PGD-P2 PGD-P2 PGDP3 CONSENSUS	(421) (418) (392) (124) (31) (28) (171) (171) (177) (17) (17) (17)	
GI_4185939_EMB_CAA76879.1_ GI_4185943_EMB_CAA76882.1_ GI_4185947_EMB_CAA76885.1_ GI_5931705_EMB_CAB56603.1_ ENV OF AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF POL349-LINK LINCAP-GENOMEA-POLOFT TRANSLATION OF ORF111-10 PGD-P1 PGD-P2 PGDP3 CONSENSUS	(481) (478) (452) (184) (31) (28) (231) (231) (237) (17) (17) (1)	481 THIRAHTNLPGPLTKANEQADLLVSSALIKAQELHALITHVNAAGLKNKFDVTWKQAKDIV THIRAHTNLPGPLTKANEQADLLVSSALIKAQELHALITHVNAAGLKNKFDVTWKQAKDIV THIRAHTNLPGPLTKANEQADLLVSSALIKAQELHALITHVNAAGLKNKFDVTWKQAKDIV THIRAHTNLPGPLTKANEQADLLVSSAFIKAQELHALITHVNAAGLKNKFDVTWKQAKDIV THIRAHTNLPGPLTKANEQADLLVSSAFIKAQELLALITHVNAAGLKNKFDVTWKQAKDIV THIRAHTNLPGPLTKANEQADLLVSSAFIKAQELLALITHVNAAGLKNKFDVTWKQAKDIV THIRAHTNLPGPLTKANEQADLLVSSAFIKAQELLALITHVNAAGLKNKFDVTWKQAKDIV THIRAHTNLPGPLTKANEQADLLVSSAFIKAQELLALITHVNAAGLKNKFDVTWKQAKDIV THIRAHTNLPGPLTKANEQADLLVSSAFIKAQELLALITHVNAAGLKNKFDVTWKQAKDIV THIRAHTNLPGPLTKANEQADLLVSSAFIKAQELLALITHVNAAGLKNKFDVTWKQAKDIV
GI_4185939_EMB_CAA76879.1_ GI_4185943_EMB_CAA76882.1_ GI_4185947_EMB_CAA76885.1_ GI_5931705_EMB_CAB56603.1_ ENV OF AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF P0L349-LINK LNCAP-GENOMEA-POLORF TRANSLATION OF ORF111-10 PGD-P1 PGD-P2 PGDP3 CONSENSUS	(541) (538) (512) (244) (31) (28) (291) (291) (297) (17) (17) (1)	600 OHCTOCOVLHLPTOEAGVNPRGLCPNALWOMDVTHVPSFGRLSYVHVTVDTYSHFIWATC OHCTOCOVLHLPTOEAGVNPRGLCPNALWOMDVTHVPSFGRLSYVHVTVDTYSHFIWATC OHCTOCOVLHLPTOEAGVNPRGLCPNALWOMDVTHVPSFGRLSYVHVTVDTYSHFIWATC OHCTOCOVLHLPTOEAGVNPESVCVLMHYGKWMSHMYLHLGRLSYVHVTVDTYSHFIWATC OHCTOCOVLHLSTOEAGVNPRGLCPNALWOMDGTHVPSFGRLSYVHVTVDTYSHFIWATC OHCTOCOVLHLSTOEAGVNPRGLCPNALWOMDGTHVPSFGRLSYVHVTVDTYSHFIWATC OHCTOCOVLHLSTOEAGVNPRGLCPNALWOMDGTHVPSFGRLSYVHVTVDTYSHFIWATC OHCTOCOVLHLSTOEAGVNPRGLCPNALWOMDGTHVPSFGRLSYVHVTVDTYSHFIWATC OHCTOCOVLHLSTOEAGVNPRGLCPNALWOMDGTHVPSFGRLSYVHVTVDTYSHFIWATC OHCTOCOVLHLSTOEAGVNPRGLCPNALWOMDGTHVPSFGRLSYVHVTVDTYSHFIWATC OHCTOCOVLHLSTOEAGVNPRGLCPNALWOMDGTHVPSFGRLSYVHVTVDTYSHFIWATC
GI_4185939_EMB_CAA76879.1_ GI_4185943_EMB_CAA76882.1_ GI_4185947_EMB_CAA76885.1_ GI_5931705_EMB_CAB56603.1_ ENV OF AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF P0L349-LINK LNCAP-GENOMEA-POLORF TRANSLATION OF LOOPE TRANSLATION OF ORPI11-10 PGD-P1 PGD-P2 PGDP3 CONSENSUS	(601) (598) (572) (304) (31) (28) (351) (351) (357) (17) (17) (1)	G01 G00 QTGESTSHVKKHLLSCFAVMGVPBKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG OTGESTSHVKKHLLSCFAVMGVPBKIKTDNGPGYCSKAPQKFLSQWKISHTTGIPYNSQG OTGESTSHVKKHLLSCFAVMGVPBKIKTDNGPGYCSKAPQKFLSQWKISHTTGIPYNSQG QTGESTSHVKKHLLSCFAVMGVPBKIKTDNGPGYCSKAPQKFLSQWKISHTTGIPYNSQG QTGESTSHVKKHLLSCFAVMGVPBKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG OTGESTSHVKKHLLSCFAVMGVPBKIKTDNGPGYCSKAPQKFLSQWKISHTTGIPYNSQG QTGESTSHVKKHLLSCFAVMGVPBKIKTDNGPGYCSKAPQKFLSQWKISHTTGIPYNSQG QTGESTSHVKKHLLSCFAVMGVPBKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG QTGESTSHVKKHLLSCFAVMGVPBKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG
GI_4185939_EMB_CAA76879.1_ GI_4185943_EMB_CAA76882.1_ GI_4185947_EMB_CAA76882.1_ GI_5931705_EMB_CAB56603.1_ ENV_OF_AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF P01349-LINK LNCAP-GENOMEA-POLORF TRANSLATION OF LNCAP-POL-GENA-GOODA TRANSLATION OF OF111-10 PGD-P1 PGD-P2 PGD-P2 PGDP3 CONSENSUS	(661) (658) (632) (364) (31) (28) (411) (411) (417) (17) (17)	A CAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNQTTTSAEQHLT QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNQTTTSAEQHLT QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNQTTTSAEQHLT QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNQTTTSAE, HLT QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNQTTTSAKQHLT QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNQTTTSAKQHLT QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNQTTTSAKQHLT QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNQTTTSAKQHLT QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNQTTTSAKQHLT QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNQTTTSAKQHLT ——HLT QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNQTTTSA QHLT QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNQTTTSA QHLT

GI_4185939_EMB_CAA76879.1_ GI_4185943_EMB_CAA76882.1_ GI_4185947_EMB_CAA76885.1_ GI_5931705_EMB_CAB56603.1_ ENV_OF_AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF POL349-LINK LNCAP-GENOME-POLORF TRANSLATION OF LNCAP-POL-GENA-GOODA TRANSLATION OF ORF111-10 PGD-P1 PGD-P2 PGDP3 CONSENSUS	(721) (718) (691) (424) (31) (28) (471) (471) (477) (17) (17) (4)	GKKHSPHEGKLIWWKDNKNKTWEIGKVITWGRGPACVSPGENQLPVWIPTRHLKFYNBPI GKKHSPHEGKLIWWKDNKNKTWEIGKVITWGRGPACVSPGENQLPVWIPTRHLKFYNEPI GKKHSPHEGKLIWWKDNKNKTWEIGKVITWGRGFACVSPGENQLPVWIPTRHLKFYNEPI
GI 4185939 EMB CAA76879.1 GI_4185943 EMB_CAA76882.1 GI_4185947 EMB_CAA76885.1 GI_5931705 EMB_CAB56603.1 ENV OP AB047240 TRANSLATION OF P366TOP-LINK TRANSLATION OF P01349-LINK LNCAP-GENOMEA-POLORF TRANSLATION OF ORP111-10 TRANSLATION OF ORP111-10 PGD-P1 PGD-P2 PGDP3 CONSENSUS	(781) (778) (703) (484) (31) (28) (531) (531) (537) (17) (17)	GDAKKRASTEMVTPVTWMDNPIEVYVNDSVWVPGPTDDRCPAKPEBEGMMINISIVYRYP GDAKKRASTEMVTPVTWMDNPIEVYVNDSVWVPGPTDDRCPAKPEBEGMMINISIVYRYP GDAKKRASTEMVTPVTWMDNPIEVYVNDSVWVPGPTDDRCPAKPEBEGMMINISIVYRYP GDAKKRASTEMVTPVTWMDNPIEVYVNDSVWVPGPTDDRCPAKPEBEGMMINISIVYRYP
GI_4185939_EMB_CAA76879.1_ GI_4185943_EMB_CAA76882.1_ GI_4185947_EMB_CAA76885.1_ GI_5931705_EMB_CAB56603.1_ ENV_OF_AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF P01349-LINK LNCAP-GENOMEA-POLORF TRANSLATION OF INCAP-POL-GENA-GOODA TRANSLATION OF ORF111-10 PGD-P1 PGD-P2 PGD-93 CONSENSUS	(795) (792) (703) (544) (31) (28) (591) (591) (597)	
GI_4185939_EMB_CAA76879.1_ GI_4185943_EMB_CAA76882.1_ GI_4185947_EMB_CAA56885.1_ GI_5931705_EMB_CAB56603.1_ ENV OF AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF POL349-LINK LNCAP-GENOMEA-POLORF TRANSLATION OF ORF111-10 PGD-P1 PGD-P1 PGD-P2 PGDP3 CONSENSUS	(795) (792) (703) (604) (31) (28) (651) (651) (657)	
GI_4185939_EMB_CAA76879.1_ GI_4185943_EMB_CAA76882.1_ GI_4185947_EMB_CAA76885.1_ GI_5931705_EMB_CAB56603.1_ ENV_OF_AB047240 TRANSLATION OF P386TOP-LINK TRANSLATION OF POL349-LINK LINCAP-GENOMEA-POLORF TRANSLATION OF LNCAP-POL-GENA-GOODA TRANSLATION OF ORF111-10 PGD-P1 PGD-P2 PGDP3 CONSENSUS	(816) (703) (664) (31) (28) (711) (711)	CPSAQVSPRVDSELTESLDKHKHKKLQSFYPWERGEKGESTPRPBIISPVEGP- CPSAQVSPRVDSELTESLDKHKHKKLQSFYPWERGEKGESTPRPBIISPVEGPEHPELWR CPSAQVSPRVDSELTESLDKHKHKKLQSFYPWERGEKGESTPRPBIISPVEGPEHPELWR

		1021	1035
GI_4185939_EMB_CAA76879.1_	(873)		
GI_4185943_EMB_CAA76882.1	(876)		
GI_4185947 EMB CAA76885.1	(873)		
GI_5931705_EMB_CAB56603.1	(703)		
ENV OF AB047240	(724)	LWPDTTLE	FGLEIKL
TRANSLATION OF P386TOP-LINK	(31)		
TRANSLATION OF POL349-LINK	(28)		
LNCAP-GENOMEA-POLORF	(764)		
TRANSLATION OF LNCAP-POL-GENA-GOODA	(771)	LWPDTTLE	FGLEIKL
TRANSLATION OF ORF111-10	(777)	LWPDTTLE	FGLEIKL
PGD-P1	(17)		
PGD-P2	(17)		
PGDP3	· (17)		
CONSENSUS	(1021)		

		1 60
GI_4185940_EMB_CAA76880.1_	(1)	· · · · · · · · · · · · · · · · · · ·
GI_4185944_EMB_CAA76883.1_	(1)	
GI_4185948_EMB_CAA76886.1_	(1)	
GI_5931706_EMB_CAB56604.1_	(1)	
ENV OF AB047240	(1)	MATLIGQGRLRIITLCGNDPDKITVPFNKQQVRQAFISSGAWQIGLANFLGIIDNHYPKT
TRANSLATION OF E207TOP-LINK	(1)	
TRANSLATION OF ENV287-LINK	(1)	
TRANSLATION OF T20.22A-23	(1)	
PGD-E1	(1)	
PGD-E2	(1)	
PGD-E3	(1)	
CONSENSUS	(1)	
		61 120
GI_4185940 EMB CAA76880.1	(1)	
GI_4185944_EMB_CAA76883.1	(1)	
GI 4185948 EMB CAA76886.1	(1)	
GI 5931706 EMB CAB56604.1	(1)	
ENV OF AB047240	(61)	KIFQFLKLTTWILPKITRREPLENALTVFTDGSSNGKAAYTGPKERVIKTPYOSAORAEL
TRANSLATION OF E207TOP-LINK	(1)	
TRANSLATION OF ENV287-LINK	(1)	
TRANSLATION OF T20.22A-23	(1)	
PGD-E1	(1)	
PGD-E2	(1)	
PGD-E3	(1)	
CONSENSUS	(61)	
		121
GI 4185940 EMB CAA76880.1	(1)	100
GI 4185944 EMB CAA76883.1	(1)	
GI 4185948 EMB CAA76886.1	(1)	
GI_5931706 EMB CAB56604.1	(1)	
ENV OF AB047240	(121)	VAVITVLQDFDQPINIISDSAYVVQATRDVETALIKYSTDDHLNQLFNLLQQTVRKRNFP
TRANSLATION OF E207TOP-LINK	(1)	
TRANSLATION OF ENV287-LINK	(1)	
TRANSLATION OF T20.22A-23	(1)	
PGD-E1	(1)	
PGD-E2	(1)	
PGD-E3	(1)	
CONSENSUS	(121)	
COMBINOS	(141)	

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		181 240
GI_4185940_EMB_CAA76880.1_	(1)	
GI_4185944_EMB_CAA76883.1_	(1)	
GI_4185948_EMB_CAA76886.1_	(1)	,
GI_5931706_EMB_CAB56604.1	(1)	
ENV OF AB047240	(181)	FYITHIRAHTNLPGPLTKANEQADLLVSSAFIKAQELLALTHVNAAGLKNKFDVTWKOAK
TRANSLATION OF E207TOP-LINK	(1)	
TRANSLATION OF ENV287-LINK	(1)	
TRANSLATION OF T20.22A-23	(1)	
PGD-E1	(1)	
PGD-E2	(1)	
PGD-E3	(1)	
CONSENSUS	(181)	
9413211005	(101)	
		241 300
GI_4185940 EMB CAA76880.1	(1)	300
GI 4185944 EMB CAA76883.1	(1)	
GI_4185948_EMB_CAA76886.1_	(1)	
GI_5931706 EMB CAB56604.1	(1)	
ENV OF AB047240	(241)	
TRANSLATION OF E207TOP-LINK		The state of the s
TRANSLATION OF ENV287-LINK	(1) (1)	***************************************
TRANSLATION OF ENV287-LINK		
	(1)	
PGD-E1	(1)	
PGD-E2	(1)	
PGD-E3	(1)	
CONSENSUS	(241)	
		301
GI_4185940 EMB CAA76880.1	(1)	360
GI_4185944_EMB_CAA76883.1	(1)	
GI_4185948_EMB_CAA76886.1_	(1)	
GI_5931706 EMB CAB56604.1	(1)	
ENV OF AB047240		ATCOMORGINALITI OCCUPATION TO THE CONTROL OF THE CON
TRANSLATION OF E207TOP-LINK		${\tt ATCQTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYN}$
	(1)	
TRANSLATION OF ENV287-LINK	(1)	
TRANSLATION OF T20.22A-23	(1)	
PGD-E1	(1)	
PGD-E2	(1)	
PGD-E3	(1)	
CONSENSUS	(301)	
•		
		361 \
GI_4185940_EMB CAA76880.1	(1)	420MQRKAPPRRRHRNRAPLTHKMNKMVTSEEQMKL
GI_4185944_EMB_CAA76883.1	(1)	MORNA DEPERTURE A PROPERTURE A P
GI_4185948_EMB_CAA76886.1	(1)	MORKAPPRRRHRNRAPLTHKMNKMVTSEEQMKL
GI_5931706_EMB_CAB56604.1_	(1)	MQRKAPPRRRHRNRAPLTHKMNKMVTSEEQMKL
		40400 TITE BY
ENV OF AB047240 TRANSLATION OF E207TOP-LINK	(361)	QARGITIQUITITE TO THE PROPERTY OF THE PROPERTY
	(1)	
TRANSLATION OF ENV287-LINK	(1)	
TRANSLATION OF T20.22A-23	(1)	MNPSEMQRKAPPRRRHRNRAPLTHKMNKMVTSEEQMKL
PGD-E1	(1)	
PGD-E2	(1)	
PGD-E3	(1)	
CONSENSUS	(361)	
		401
GT 4305040 FWD G3375000 6	(421 480
GI_4185940_EMB_CAA76880.1_	(35)	PSTKKAEPPTWAQLKKLTQLATKYLENTKVTQTPESMLLAALMIVSMVVSLPMPAGAAAA
GI_4185944_EMB_CAA76883.1_	(35)	PSTKKAEPPTWAQLKKLTQLATKYLENTKVTQTPESMLLAALMIVSMVVSLPMPAGAAAA
GI_4185948_EMB_CAA76886.1_	(35)	PSTKKAEPPTWAQLKKLTQLATKYLENTKVTQTPESMLLAALMIVSMVVSLPMPAGAAAA
GI_5931706_EMB_CAB56604.1_	(1)	
ENV OF AB047240	(421)	HLTGKKHSPHEGKLIWWKDNKNKTWEIGKVITWGRGFACVSPGENQLPVWIPTRHLKFYN
TRANSLATION OF E207TOP-LINK	(1)	***************************************
TRANSLATION OF ENV287-LINK	(1)	
TRANSLATION OF T20.22A-23	(40)	PSTKKAEPPTWAQLKKLTQLATKYLENTKVTQTPESMLLAALMIVSMVVSLPMPAGAAAA
PGD-E1	(1)	TOTALGETTIAGENCETQUARKIEENTKVIQIPESMELAALMIVSMVVSLPMPAGAAAA
PGD-E2		
PGD-E3	(1)	
COMPRISE CONTRACTOR	(1)	



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GI_4185940_EMB_CAA76880.1	(OE)	481 540
GI_4185944 EMB CAA76883.1	(95)	NYTYWAYVPFPP-TRAVTWMDNPTEVYVNDSVWVPGPIDDRCPAKPEBEGMMINISIGY NYTYWAYVPFPP-TRAVTWMDNPIEVYVNDSVWVPGPTDDHCPAKPEBEGMMINISIGY
GI_4185948_EMB_CAA76886.1	(95)	NYTYWAYVPFPP WRAVIWMDNPTEVYVNDSVWVPGPTDDHCPAKPEEEGMMINISIGY NYTYWAYVPFPP WRAVIWMDNPTEVYVNDSVWVPGPIDDRCPAKPEEEGMMINISIGY
GI_5931706 EMB CAB56604.1	(1)	
ENV OF AB047240	(481)	EPIGDAKKRASTEMVTPVTWMDNPIEVYVNDSVWVPGPTDDRCPAKPEEEGMMINISIVY
TRANSLATION OF E207TOP-LINK	(1)	
TRANSLATION OF ENV287-LINK	(1)	
TRANSLATION OF T20.22A-23	(100)	
PGD-E1 PGD-E2	(1)	
PGD-E3	(1) (1)	
CONSENSUS	(481)	
	, ,	DI VIMBRI EVIVADSVAVEGE DD CEAREEEGMMINISI Y
		•
		541 600
GI_4185940_EMB_CAA76880.1_	(154)	HYPPICLGRAPGC MPAVQNWLVEVPTVSPICRFTYHMVSGMSLRPRVNYLQDFSYQRSL
GI_4185944_EMB_CAA76883.1_	(154)	RYPPICLGRAPGCMPAVQNWLVEVPTVSPISRFTYHMVSGMSLRPRVNYLODFSYORSF
GI_4185948_EMB_CAA76886.1_	(154)	HYPPICLGRAPGCEMPAVQNWLVEVPTVSPICRFTYHMVSGMSLRPRVNYLQDFSYQRSL
GI_5931706_EMB_CAB56604.1_	(48)	HYPPICLGRAPGC MPAVQNWLVEVPTVSPNSRFTYHMVSGMSLRPRVNCLQDFSYQRSL
ENV OF AB047240	(541)	RYPPICLGRAPGCIMPAVQNWLVEVPTVSPNSRFTYHMVSGMSLRPRVNYLQDFSYQRSL
TRANSLATION OF E207TOP-LINK TRANSLATION OF ENV287-LINK	(1) (1)	
TRANSLATION OF ENV287-LINK TRANSLATION OF T20.22A-23		
PGD-E1	(139)	HYPPICLGRAPGCOMPAVQNWLVEVPTVSPICRFTYHMVSGMSLRPRVNYLQDFSYQRSL
PGD-E1	(1)	
PGD-E3	(1)	
CONSENSUS	(541)	YPPICLGRAPGCLMPAVQNWLVEVPTVSP RFTYHMVSGMSLRPRVN LQDFSYQRSL
	, ,	TITIODOGNI OCEMINI QUINDI ETTINIVOGISHREKVI LQDESIQRSL
		601
GI_4185940_EMB_CAA76880.1_	(214)	KFRPKGKPCPKEIPKESKNTEVLVWEECVANSAVILONNEFGTIIDWAPRGOFYHNCSGO
GI_4185944_EMB_CAA76883.1_	(214)	KFRPKGKPCPKEIPKESKNTEVLVWEECVANSAVILONNEFGTIIDWAPRGORYHNGSGO
GI_4185948_EMB_CAA76886.1_	(214)	KFRPKGKPCPKEIPKESKNTEVLVWEECVANSAVILONNEFGTIIDWAPRGOFYHNCSGO
GI_5931706_EMB_CAB56604.1_	(108)	KFRPKGKTCPKEIPKGSKNTEVLVWEECVANSVVILQNNEFGTIIDWAPRGOFYHNCSGO
ENV OF AB047240	(601)	KFRPKGKPCPKEIPKESKNTEVLVWEECVANSAVILQNNEFGTIIDWAPRGQFYHNCSGQ
TRANSLATION OF E207TOP-LINK TRANSLATION OF ENV287-LINK	(8)	KFRPKGKPCPKEIPKESKNTEVL
TRANSLATION OF ENV287-LINK TRANSLATION OF T20.22A-23	(1)	·
PGD-E1	(219)	KFRPKGKPCPKEIPKESKNTEVLVWEECVANSAVILQNNEFGTIIDWAPRGQFYHNCSGQ
PGD-E1	(1) (1)	RPKGKPCPKEIPKESC
PGD-E3	(1)	
CONSENSUS		KFRPKGKPCPKEIPKESKNTEVLVWEECVANS VILQNNEFGTIIDWAPRGQFYHNCSGQ
	(,	WALL OF WILL ADDICATE AND ALL OF ANY ALL OF
		,
		661 720
GI_4185940_EMB_CAA76880.1_	(274)	TQSCQSAQVSPAVDSDLTESLDKHKHKKLQSFYPWEWGEKGISTPRPKI
GI_4185944_EMB_CAA76883.1_	(274)	TQSCPSAQVSPAVDSDLTESLDKHKHKKLQSFYPWEWGEKGISTPRPKI
GI_4185948_EMB_CAA76886.1_	(274)	TQSCPSAQVSPAVDSDLTESLDKHKHKKLQSFYPWEWGEKGISTPRPKI
GI_5931706_EMB_CAB56604.1_	(168)	TQSCPSAQVSPAVDSDLTESLDKHKHKKLQSPYLWEWEEKGISTPRPKI
ENV OF AB047240	(661)	TQSCPSAQVSPAVDSDLTESLDKHKHKKLQSFYPWEWGEKGISTPRPEI#SPVSGPEHPE
TRANSLATION OF E207TOP-LINK TRANSLATION OF ENV287-LINK	(31)	
TRANSLATION OF ENV287-LINK TRANSLATION OF T20.22A-23	(1)	TOSGRESS ON THE STATE OF THE ST
· · · · · · · ·		TQSCPSAQVSPAVDSDLTESLDKHKHKKLQSFYPWEWGEKGISTPRPKI <mark>W</mark> SPVSGPEHPE
PGD-E1 PGD-E2	(17)	
PGD-E2 PGD-E3	(1)	
PGD-E3 CONSENSUS		TOSC CANVEDAUDEDI TESI DVINUNUN OGRUPATIMOTIVA ATTAC
CONSENSOS	(001)	TQSC SAQVSPAVDSDLTESLDKHKHKKLQSFYPWEWGEKGISTPRP IISPVSGPEHPE
		721 780
GI_4185940_EMB_CAA76880.1_	(334)	LWRLTVASHHIREWSGNOTLETRDRKPFYTIDLNSSTTVPLOSCTKPPYMLVVGNTVTVP
GI_4185944_EMB_CAA76883.1_	(334)	LWRLTVASHHIREWSGNQTLETRDRKPFYTVDLNSSMTVPLOSCERKPPYMLVVGNIVIKD
GI_4185948_EMB_CAA76886.1_	(334)	LWRLTVASHHIREWSGNQTLETRDRKPFYTIDLNSSETVPLOSCOKPPYMLVVGNTVIKD
GI_5931706_EMB_CAB56604.1_	(228)	LWRLTVASHHIR WSGNQTLETRYRKPFYTIDLNSITTVPLOSCMKPPYMLVVGNTVIKP
ENV OF AB047240	(721)	LWP
TRANSLATION OF E207TOP-LINK	(31)	
TRANSLATION OF ENV287-LINK	(29)	
TRANSLATION OF T20.22A-23	(339)	LWRLTVASHHIREWSGNQTLETRDRKPFYTIDLNSSETVPLQSCEKPPYMLVVGNIVIKP
PGD-E1	(17)	
PGD-E2	(1)	Lnss ü tvplosc <mark>u</mark> kpc
PGD-E3 CONSENSUS		TM DT
CONSENSUS	(721)	LW RI LNS LTVPLQSCVKP



GI_4185940_EMB_CAA76880.1_ GI_4185944_EMB_CAA76883.1_ GI_4185948_EMB_CAA76886.1_ GI_5931706_EMB_CAB56604.1	(394) (394)	DSQTITCENCRLLTCIDETFNWOHRILLVRAREGVWIPVSMDRPWEASPSVHILTEVLKG DSQTITCENCRLLTCIDETFNWOHRILLVRAREGVWIPVSMDRPWETSPSIHTLTEVLKG DSQTITCENCRLLTCIDETFNWOHRILLVRAREGVWIPVSMDRPWEASPSVHILTEVLKG ASQTITCENCRLFTCIDETFNWOHRILLVRAREGMWIPVSTDRPWEASPSIHILTEILKG
ENV OF AB047240 TRANSLATION OF E207TOP-LINK	(727) (31)	DETLEEGLEIKL
TRANSLATION OF ENV287-LINK TRANSLATION OF T20.22A-23 PGD-E1	(29) (399) (17)	DSQTITCENCRLLTCIDETFN#QHRILLVRAREGVWIPVSMDRPWEASPSVHILTEVLKG
PGD-E2 PGD-E3	(17) (1)	
CONSENSUS	(781)	DST W I L
GI_4185940_EMB_CAA76880.1_ GI_4185944_EMB_CAA76883.1_ GI_4185948_EMB_CAA76886.1_ GI_5931706_EMB_CAB56604.1_ ENV OF AB047240 TRANSLATION OF E207TOP-LINK TRANSLATION OF EV287-LINK TRANSLATION OF T20.22A-23 PGD-E1 PGD-E2 PGD-E3 CONSENSUS	(454) (454)	841 900 VLNRSKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSI VLNRSKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSI VLNRSKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSI VLNRSKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNYWQKNSTRLWNSQSSI VLNRSKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSI
GI_4185940_EMB_CAA76880.1_		901 960 DQKLANQINDLRQTVIWMGDRLMSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRH
GI_4185944_EMB_CAA76883.1_ GI_4185948_EMB_CAA76886.1_		DQKLANQINDLRQTVIWMGDRLMSLEHRFQLQCDWNTSDFSITPQIYNESEHHWDMVRRH DQKLANQINDLRQTVIWMGDRLMSLEHRFQLQCDWNTSDFCITPQIYNESELHWDMVRRH
GI_5931706_EMB_CAB56604.1_ ENV OF AB047240	(408) (739)	DQKLASQINDLRQTVIWMGDRLMTLEHHFQLQCDWNTSDFCITPQIYNESEHHWDMVRRH
TRANSLATION OF E207TOP-LINK	(31)	
TRANSLATION OF ENV287-LINK TRANSLATION OF T20.22A-23	(29) (510)	DOVI ANOTATO DOTAL WARDE NOT THE POST OF T
PGD-E1	(519) (17)	DQKLANQINDLRQTVIWMGDRLMSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRH
PGD-E2	(17)	
PGD-E3 CONSENSUS	(1) (901)	·
GI_4185940_EMB_CAA76880.1	(574)	961 1020 LQGREDNLTLDISKLKEQIFEASKAHLNLVPGTEAIAGVADGLANLNPVTWVKTIGSTTI
GI_4185944_EMB_CAA76883.1_		LQGREDNLTLDISKLKEQIFEASKAHLNLVPGTEAIAGVADGLANLNPVTWVKTIGSTTI
GI_4185948_EMB_CAA76886.1_ GI_5931706 EMB CAB56604.1	(574)	LQGREDNLTLDISKLKEQIFEASKAHLNLVPGTEAIAGVADGLANLNPVTWVKTIGSTTI
ENV OF AB047240	(739)	LQGREDNLTLDISKLKEQIFEASKAHLNLVPGTEAIAGVADGLANLNPVTWIKTIRSTMI
TRANSLATION OF E207TOP-LINK TRANSLATION OF ENV287-LINK	(31)	
TRANSLATION OF T20.22A-23	(29) (579)	LQGREDNLTLDISKLKEQIFEASKAHLNLVPGTEAIAGVADGLANLNPVTWVKTIGSTTI
PGD-E1	(17)	
PGD-E2 PGD-E3	(17) (1)	
CONSENSUS	(961)	
		1021
GI_4185940_EMB_CAA76880.1_		INLILILVCLFCLLLVCRCTQQLRRDSDHRERAMMTMAVLSKRKGGNVGKSKRDOIVTVSV
GI_4185944_EMB_CAA76883.1_ GI_4185948_EMB_CAA76886.1	(634) (634)	INLILILVCLFCLLLVCRCTQQLRRDSDHRERAMMTMAVLSKRKGGNVGKSKRDQIVTVSVINLILILVCLFCLLLVCRCTQQLRRDSDHRERAMMTMAVLSKRKGGNVGKSKRDQIVTVSV
GI_5931706_EMB_CAB56604.1_	(528)	INLILIVVCLFCLLLVCRCTQQLRRDSDIENGP
ENV OF AB047240 TRANSLATION OF E207TOP-LINK	(739)	
TRANSLATION OF E20710P-LINK TRANSLATION OF ENV287-LINK		
TRANSLATION OF T20.22A-23	(639)	INLILILVCLFCLLLVCRCTQQLRRDSDHRERAMMTMAVLSKRKGGNVGKSKRDQIVTVSV
PGD-E1	(17) (17)	
PGD-E2	(1)	RCTQQLRRDSDHRERA
CONSENSUS	(1021)	RCTQQLRRDSD